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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/664,449	09/20/2003	Chen-Yu Huang	CHA920030020US1	4525

7590 04/04/2007  
James E. Nurray  
69 South Gate Drive  
Poughkeepsie, NY 12601

EXAMINER
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SAINT CYR, LEONARD

ART UNIT	PAPER NUMBER
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2626

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	04/04/2007	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

**Office Action Summary**

Application No.

10/664,449

Applicant(s)

HUANG ET AL.

Examiner

Leonard Saint-Cyr

Art Unit

2626

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-16 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____                                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date ____   | 6) <input type="checkbox"/> Other: ____                           |

## DETAILED ACTION

### *Specification*

1. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. Correction of the following is required. Claims 9 – 16 disclose “computer program on a computer usable medium”, but there is no definition or explanation in the specification of the instant application as to what type the medium is used to store the computer program.

### *Claim Rejections - 35 USC § 102*

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1 – 16 are rejected under 35 U.S.C. 102(e) as being anticipated by Omoigui (US PAP 2003/0126136).

As per claims 1, and 9, Omoigui teaches a self-enhancing search system comprising:

a semantic taxonomy containing semantic nodes in a hierarchical structure (paragraph 705; paragraph 217, line 8);

Art Unit: 2626

a search system analyzer that periodically looks through a document and identifies a semantic node term in the semantic taxonomy applicable to the document ("document as a tree of nodes"; paragraph 317, lines 5 – 7; paragraph 1230);

a semantic binder attaching the document to the semantic node term ("testing whether or not a node matches a pattern"; paragraph 166; paragraph 317, lines 1 – 7); and

relevant document finder based on enhanced queries including the semantic node term to locate documents applicable to a user's search ("wherein the node can automatically link to breaking news; paragraph 510, lines 1 –5; col.1212, lines 17, and 18).

As per claims 2, and 10, Omoigui further discloses the enhanced search query includes "the user's search query" OR "the semantic node" (paragraph 466, line 12).

As per claims 3, and 11, Omoigui further discloses a semantic dictionary which defines user query terms in accordance with the semantic nodes in the semantic dictionary ("invokes the query onto the database that hosts the semantic metadata"; paragraph 638, lines 12 – 14).

As per claims 4, and 12, Omoigui further discloses a semantic dictionary builder which examines the system log to increase the terms in the semantic dictionary ("

automatically adds the agent into Joe's semantic environment that performs implicit queries"; paragraph 1319, lines 1 – 7).

As per claims 5, and 13, Omoigui further discloses ranking the results of searches using the enhanced queries ("ranked by relevance"; paragraph 1319, lines 1 – 7).

As per claims 6, and 14, Omoigui further discloses a text analyzer comprising:  
a sub-module that identifies domain specific terms ("domain specific semantic information") in a given query, using domain specific glossary (paragraph 71);

a submodule that finds synonyms ("same meaning") and related terms for the identified terms, using domain specific thesaurus (paragraph 19, lines 13 - 15);

a submodule that finds other statistically close terms ("new semantic links that are based on probabilistic inferences"; paragraph 623, lines 1 – 3); and

a submodule that identifies relevant domain specific categories for the identified terms, using domain specific ontology (paragraph 71, lines 17 –21; paragraph 258).

As per claims 7, and 15, Omoigui further discloses a submodule that binds queries in the identified semantic taxonomy categories, using the results of the text analyzer ("ontology and categories corresponding to taxonomy for each semantic domain ... responds to semantic queries"; paragraph 670, lines 8 – 11).

As per claims 8, and 16, Omoigui further discloses a submodule that adds new doc-query links to the meta-data of the corresponding textual index entries to link the documents to the semantic taxonomy categories ("adding, removing and updating entries in the semantic metadata store"; paragraph 248; paragraph 269; paragraph 670, lines 8 – 11; paragraph 582).

### ***Conclusion***

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Chen et al., (US PAP 2004/0220905) teach a concept network that can be generated in response to a user query, wherein each data storage location is arranged with a node.

Garrecht et al., (US Patent 6,571,249) teach management of query result complexity in hierarchical query balanced spaced cubes.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leonard Saint-Cyr whose telephone number is (571) 272-4247. The examiner can normally be reached on Mon- Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richemond Dorvil can be reached on (571) 272-7602. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2626

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

LS  
03/24/07

  
RICHEMOND DORVIL  
SUPERVISORY PATENT EXAMINER